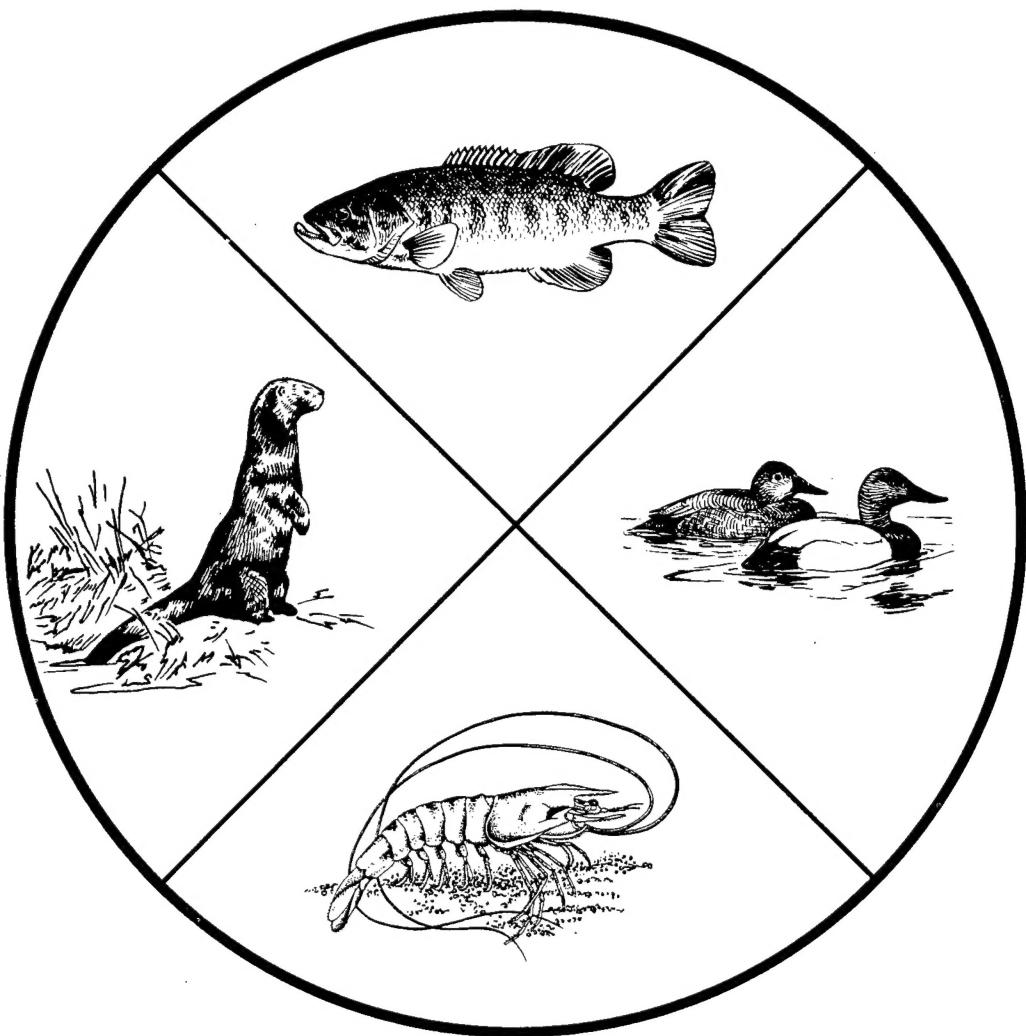


**BIOLOGICAL REPORT 85(1.16)
FEBRUARY 1989**

CONTAMINANT HAZARD REVIEWS REPORT NO. 16

INDEX TO COMMON AND SCIENTIFIC NAMES OF SPECIES LISTED IN CONTAMINANT HAZARD REVIEWS 1 THROUGH 15



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February 1989

Contaminant Hazard Reviews
Report No. 16

**INDEX TO COMMON AND SCIENTIFIC NAMES
OF SPECIES LISTED IN CONTAMINANT
HAZARD REVIEWS 1 THROUGH 15**

by

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and

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U.S. Department of the Interior

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SUMMARY

The Contaminant Hazard Review series emphasizes ecotoxicological aspects of selected chemical pollutants to fishery and wildlife resources, and includes reports on various agricultural pesticides (mirex, carbofuran, toxaphene, diazinon, chlorpyrifos), metals and metalloids (arsenic, cadmium, chromium, mercury, lead, selenium, tin), and organic industrial wastes (polycyclic aromatic hydrocarbons, dioxins, polychlorinated biphenyls). The present account is a cumulative index to the common and scientific names of all biological species listed in the first 15 reports in the Contaminant Hazard Review series, published as U.S. Fish and Wildlife Service Biological Reports 85(1.1) through 85(1.15), inclusive. Individual species were cross-referenced by contaminant and corresponding page numbers.

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INTRODUCTION

A total of 15 Contaminant Hazard Reviews have been published since 1985 (Eisler 1985a,b,c,d; 1986a,b,c,d; 1987a,b; 1988a,b; 1989; Eisler and Jacknow 1985; Odenkirchen and Eisler 1988). These reviews briefly summarized ecological and toxicological aspects of various chemical pollutants, with particular emphasis on fishery and wildlife resources. Specifically, the reviews were prepared on selected agricultural pesticides (mirex, carbofuran, diazinon, toxaphene, chlorpyrifos), metalloids (arsenic, selenium), metals (cadmium, lead, chromium, mercury, tin), and organic industrial wastes (polychlorinated biphenyls, dioxins, polycyclic aromatic hydrocarbons).

We present herein an index to the common and scientific names of all species listed in Contaminant Hazard Reviews 1 to 15. This report was prepared in response to a request from environmental specialists of the U.S. Fish and Wildlife Service. Taxonomic nomenclatures for plants, invertebrates, and vertebrates are under constant revision. Accordingly, we elected to conform as much as possible to the systems and spellings used by Swain and Swain (1948) for insects, Edwards (1974) for birds, American Fisheries Society (1980) for fishes, Johnson and Finley (1980) and Jenkins (1980) for invertebrates, Jenkins (1980) and Scott and Wasser (1980) for plants, and Nowak and Paradiso (1983) for mammals.

In this report, individual species are arranged alphabetically in the Index by scientific and common name. The scientific name is followed by an underlined number that refers to one of the Contaminant Hazard Reviews in the following list, and to the page numbers within the report.

- 1= Mirex (Eisler 1985a)
- 2= Cadmium (Eisler 1985b)
- 3= Carbofuran (Eisler 1985c)
- 4= Toxaphene (Eisler and Jacknow 1985)
- 5= Selenium (Eisler 1985d)
- 6= Chromium (Eisler 1986a)
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Cottontail, eastern, Sylvilagus floridanus

Coturnix coturnix: 1 6, 9; 9 14; 10 50, 51-53; 12 56; 14 86.

Coturnix japonica: 1 6, 7; 2 24; 3 11, 12, 14, 22; 4 8; 5 26, 27, 29; 7 40, 52, 53; 9 iii, 9; 10 51, 52, 62; 13 13, 15; 14 78; 15 8, 50-52.

Coturnix risoria: 13 15.

Cow, Bos bovis

Cowbird, brown-headed, Molothrus ater

Cowpea, Vigna sp.

Coyote, Canis latrans

Crab

 Alaskan king, Paralithodes camtschatika

 Alaskan snow, Chionocetes bairdii

 Blue, Callinectes sapidus

Drift-line, Sesarma cinereum
Dungeness, Cancer magister
Fiddler, Uca pugilator
Hermit, Pagurus longicarpus
Mud, Rithropanopeus harrissii
Rock, Cancer irroratus
Stone, Menippe mercenaria
Various, Carcinus, Neptunus, Podophthalmus
Crabs: 3 8; 5 27; 6 5, 35; 7 28; 12 29, 81; 15 11, 35.
Crane
 Lesser sandhill, Grus canadensis canadensis
 Sandhill, Grus canadensis
Crangon crangon: 2 16; 12 29; 14 66, 67; 15 44.
Crappie, white, Pomoxis annularis
Crassostrea commercialis: 2 4.
Crassostrea gigas: 2 4; 5 33; 6 33; 10 13; 12 50; 15 27, 29, 34, 41.
Crassostrea spp. 12 27; 14 71.
Crassostrea virginica: 2 27, 28; 4 10, 14-16; 5 11; 6 24, 33; 7 44, 45; 10, 47; 11 27, 32, 36, 40, 42, 48; 12 27, 51, 54; 14 65; 15 11, 29, 44.
Crataegus spp.: 14 28.
Crawfish, Cambarus sp.
Crayfish, Astacus, Orconectes, Pacifastacus, Procambarus
Crayfishes: 3 1; 10 43, 64; 11 33.
Crepidula fornicate: 10 48, 58, 59.
Cricetus spp.: 2 31; 3 25; 6 27, 39; 8 24-26; 9 25; 11 1, 55; 12 10, 12, 35, 37-39, 64; 13 12; 15 56.
Cricket, Gryllidae
Cristigera sp.: 14 67.
Croaker, Atlantic, Micropogonias undulatus
Crocodile, American, Crocodylus acutus
Crocodylus acutus: 1 24; 10 30; 12 32.
Crocothemis erythryaea: 13 7.
Crow, American, Corvus brachyrhynchos
Ctenocephalides spp.: 13 6.
Culex pipiens quinquefasciatus: 11 42.
Culex spp.: 3 22; 5 31; 7 45, 47; 13 17, 24.
Cunninghamella elegans: 11 34.
Cutworm, Lepidoptera
Cygnus buccinator: 14 2, 51.
Cygnus columbianus: 14 51.
Cygnus olor: 14 2, 37, 51.
Cynodon dactylon: 12 40.
Cynoscion nebulosus: 4 6.
Cyprinodon variegatus: 3 8, 10, 11, 21; 4 10, 11, 16; 5 34; 7 39, 48, 50, 51, 57; 9 11, 19, 21, 22; 11 38; 13 9, 10; 15 6, 42, 43, 48.
Cyprinus carpio: 4 9; 5 17, 32, 35-37; 7 14, 33; 8 8, 9, 12; 12 24; 14 33; 15 39.

Dab, Limanda limanda

Damselflies, Odonata

Daphnia galeata mendotae: 2 21.

Daphnia longispina: 15 46, 47.

Daphnia magna: 2 17, 21, 27; 4 9, 11, 14, 15; 5 31; 6 20, 23, 26, 30; 7 37, 44, 45, 51; 8 19; 9 10, 19; 10 46, 49; 11 40-42; 12 45; 13 6, 7; 14 12, 13, 58, 59, 71; 15 35, 38, 44, 47.

Daphnia pulex: 2 21; 4 9; 5 31; 9 10; 11 40-44; 12 46.

Daphnia sp.: 1 4, 8, 12; 3 22; 4 7; 5 36; 6 25; 14 72.

Daphnids, 11 45, 48; 14 57.

Daucus sp.: 9 5; 14 56.

Deer

Mule, Odocoileus hemionus

Roe, Capreolus capreolus

Various, Cervidae

White-tailed, Odocoileus virginianus

Dendrocygna bicolor: 3 11, 12; 4 12; 10 51.

Dianthus sp.: 5 5.

Dicranum scoparium: 10 21.

Digitaria sanguinalis: 12 6.

Diomeda immutabilis: 14 3.

Diplopoda, Millipedes

Diplodus sargus: 10 26.

Diploria strigosa: 7 47.

Dog, Canis familiaris, Canis sp.

Dogfish

Smooth, Mustelus canis

Spiny, Squalus acanthias

Dolphin, striped, Stenella coeruleoalba

Donax venustus: 10 24.

Dorosoma cepedianum: 4 6, 7.

Dorosoma petenense: 4 7; 5 18.

Dove

Mourning, Zenaida macroura

Ringed turtle-, Streptopelia risoria

Ring-necked, Streptopelia capicola

Rock, Columba livia

Drosophila melanogaster: 10 68.

Drum, freshwater, Aplodinotus grunniens

Duck

American black, Anas rubripes

American wood, Aix sponsa

Fulvous whistling, Dendrocygna bicolor

Tufted, Aythya fuligula

Mottled, Anas fulvigula

Various, Anas spp.

Duckweed, Lemna media, Lemna minor

Dugesia dorotocephala: 10 49, 58.

Dunaliella marina: 12 55.

Dunaliella tertiolecta: 14 65.

Eagle

Bald, Haliaeetus leucocephalus

White-tailed sea-, Haliaeetus albicilla

Earthworm

Australian, Lumbricus sp.

Various, Allotabophora, Eisenia, Eisenoides, Lumbricus, Octochaetus

Earthworms: 3 1, 8, 17, 18; 5 6, 22, 27, 38; 6 5, 14, 25; 8 12; 12 44; 14 22,
29, 48, 57.

Echinodermata: 6 36; 10 59; 15 37.

Echinus esculentus: 2 7.

Ecklonia radiata: 12 35.

Eel, American, Anguilla rostrata

Eels, Anguilla

Egret, cattle, Bubulcus ibis

Eichornia crassipes: 10 21.

Eider, common, Somateria mollissima

Eisenia foetida: 3 18; 6 14; 10 57, 68.

Eisenia rosea: 14 29.

Eisenoides carolinensis: 14 29.

Egregia laevigata: 14 71.

Elasmopus pectenircus: 11 38.

Elk, Cervus canadensis (= elaphus), Cervus sp.

Elm, Ulmus americana

Elodea canadensis: 3 22; 14 70.

Elodea sp.: 3 21; 8 19.

Engraulidae: 14 34.

Enhydra lutris: 2 10.

Enteromorpha linza: 14 25.

Enteromorpha sp.: 15 28.

Entosiphon sulcatum: 14 59.

Eopsetta grigorjewi: 12 30.

Ephemerella sp.: 2 17, 28.

Eptesicus fuscus: 7 23, 34; 14 44.

Equus caballus: 1 33; 5 1, 26, 28, 29, 44; 8 1, 26; 12 65; 14 iii, 3, 44, 48,
53, 55, 87, 90, 91, 99, 104.

Eremophila alpestris: 4 12; 9 29; 13 17, 22, 23.

Erethizon dorsatum: 2 13.

Erithacus rubecula: 7 53.

Erolia (= Calidris) spp.: 3 1, 27.

Escherichia coli: 8 17.

Esox lucius: 5 32; 6 26; 8 20, 28; 10 26, 40, 61; 11 42, 46; 12 24; 14 64.

Esox niger: 8 16.

Estigmene acrea: 3 22, 23.

Eucyclops agilis: 2 21.

Euphausid, Meganyctiphanes norvegica

Eurytemora affinis: 11 38, 39; 12 51; 15 41.
Eutamias townsendii: 14 44.

Falco columbarius: 1 32.

Falco mexicanus: 14 78, 79.

Falco peregrinus: 1 32; 7 52; 10 33; 14 38.

Falco rusticolus: 10 33, 41.

Falco sp.: 10 41.

Falco sparverius: 1 9, 16; 7 50; 14 13, 79, 80, 103.

Falco tinnunculus: 7 17; 10 54.

Falcon

Peregrine, Falco peregrinus

Prairie, Falco mexicanus

Swedish gyr, Falco rusticolus

Felis domesticus: 3 13; 4 8; 6 27; 8 1; 10 12, 15, 36, 54, 55, 64, 65, 68, 74; 12 65; 14 91, 99; 15 61.

Fern, ostrich, Matteuccia struthiopteris

Ferret, European, Mustela putorius furo

Fescue, Festuca arundinacea

Festuca arundinacea: 6 13.

Festuca rubra: 14 25.

Finch, house, Carpodacus mexicanus

Fish, harlequin, Rasbora heteromorpha

Flagfish, Jordanella floridae

Flatworm, see Dugesia dorotocephala

Flavobacterium: 5 4.

Fleas, Ctenocephalides spp., Siphonaptera

Flounder

Baltic or European, Platichthys flesus

Roundnose, Eopsetta grigorjewi

Summer, Paralichthys dentatus

Windowpane, Scophthalmus aquosus

Winter, Pseudopleuronectes americanus

Witch, Glyptocephalus cynoglossus

Yellowtail, Limanda limanda

Fly

Crane, Tipula sp.

Damsel, Ischnura

Dragon, Crocothemis, Macromia, Pseudagrion

Fruit, Drosophila melanogaster

Horn, Haematobia irritans, Muscidae

House, Musca domestica, Musca sp.

May, Hexagenia, Siphlonurus

Snipe, Atherix sp.

Stone, Claassenia, Isoperla, Pteronarcella, Pteronarcys

Formicidae: 1 20; 5 6, 38.

Fox, red, Vulpes vulpes

Fragaria vesca: 3 4.

Fratercula spp.: 2 15

Frog

Bull, Rana catesbeiana
Cricket, Acris sp.
European, Rana temporaria
Green, Rana clamitans
Leopard, Rana sphenocephala
Tree, Hyla sp.
Various, Rana, Xenopus

Frogs: 3 1, 22; 13 22.

Fruitworm, Lepidoptera

Fucus distichus: 14 26.

Fucus spp.: 11 32; 12 26.

Fucus vesiculosus: 2 4; 6 9; 12 26, 53; 14 26.

Fulica americana: 5 20, 38.

Fundulus heteroclitus: 2 28, 30, 31; 5 27; 6 23; 10 61; 13 19; 14 68; 15 45.

Fundulus kansasae: 5 36.

Fundulus similis: 4 16; 11 40; 13 8.

Fungi: 5 20; 12 9; 14 24, 57; 15 10, 15.

Fungus, Cortinarius spp., Cunninghamella elegans

Gadopsis marmoratus: 10 27.

Gadus morhua: 2 8; 7 8, 12, 47; 12 31; 15 31.

Gadwall, Anas strepera

Galleria melonella: 3 17.

Gallinule, purple, Porphyryla martinica

Gallus sp.: 1 5, 9, 15, 19; 2 iii, 24, 31; 3 11, 23, 24; 4 17; 5 1, 29, 38; 6 18, 19, 27, 37; 7 36, 50, 53, 60; 8 1, 23, 28; 9, iv, 1, 6, 9, 14, 19, 23; 10 1, 51, 53, 61, 62, 74; 12 4, 6, 56, 58, 59, 61, 76, 77; 13 10, 12, 15; 14 13, 14, 80, 81, 86; 15 8, 32, 50, 51.

Gambusia affinis: 1 12; 2 28; 3 9; 5 18, 32, 36, 37; 8 21; 11 38, 42, 46; 13 9, 18; 14 34.

Gammarus duebeni: 10 49.

Gammarus fasciatus: 9 10.

Gammarus lacustris: 13 6, 7.

Gammarus oceanicus: 15 43.

Gammarus pseudolimnaeus: 7 37, 45; 10 46, 61; 11 37; 12 46, 53; 14 59.

Gammarus spp.: 1 4, 8; 4 9, 11; 6 20; 51.

Gar, spotted, Lepisosteus oculatus

Gasterosteus aculeatus: 2 17; 4 10; 14 64.

Gastrophryne carolinensis: 10 47; 12 44, 47, 81.

Gastropods: 3 24; 4 7; 5 27, 36; 6 12; 12 53, 81; 14 31.

Gavia arctica: 7 22.

Gavia immer: 5 19; 10 63; 14 38.

Gazelle, Antilopinae

Gerbil, Gerbillus sp., Meriones unguiculatus

Gerbillus sp.: 15 56.

Girella punctata: 10 14.

Glebula rotundata: 3 22, 23.
Globicephala macrorhynchus: 2 10; 5 15.
Glycine max: 2 12; 4 19; 12 39, 40, 43; 14 48, 56.
Glyptocephalus cynoglossus: 12 66.
Glyptotendipes barbipes: 7 47.
Goat, domestic, Capra hircus, Capra sp.
Goatfish, Mullus, Upeneus
Goby, edible, Boleophthalmus dussumieri
Goldenrod, Solidago graminifolia
Goldfish, Carassius auratus
Goose
 Canada, Branta canadensis
 Greylag, Anser anser
 Various, Anser spp.
Goosefish, Lophius piscatorius
Gopher, pocket, Thomomys sp.
Goshawk, Accipiter gentilis
Gossypium hirsutum: 3 19, 23; 4 iii, 1, 3, 4, 19; 12 6, 14, 39.
Grackle
 Common, Quiscalus quiscula
 Great-tailed, Quiscalus mexicanus
Grape, Vitis sp.
Grass
 Bahia, Paspalum notatum
 Blue, Poa annua
 Brome, Bromus inermis, Bromus spp.
 Buffalo, Bouteloua dactyloides
 Colonial bent-, Agrostis tenuis
 Common Bermuda, Cynodon dactylon
 Crab, Digitaria sanguinalis
 Marsh, Spartina sp.
 Johnson, Sorghum halepense
 Red fescue, Festuca rubra
 Saltmarsh, Spartina alterniflora
 Western wheat, Agropyron smithii
Grasshopper, western, Melanoplus spp.
Grasshoppers: 4 7, 19; 9 iv, 29.
Grebe
 Eared, Podiceps nigricollis
 Great crested, Podiceps cristata
 Pied-billed, Podilymbus podiceps
Grebes, Podicipediformes
Grindelia spp.: 5 6.
Grindelia squarrosa: 5 21.
Groundnut, Arachis hypogaea
Grouse
 Ruffed, Bonasa umbellus
 Sharp-tailed, Tympanuchus phasianellus

Grunion, California, Leuresthes tenuis

Grus canadensis: 13 13; 14 2.

Grus canadensis canadensis: 4 12.

Gryllidae: 1 21; 6 42.

Gudgeon, topmouth, Pseudorasbora parva

Gull

California, Larus californicus

Franklin's, Larus pipixcan

Great black-backed, Larus marinus

Herring, Larus argentatus

Laughing, Larus atricilla

Lesser black-backed, Larus fuscus

Ring-billed, Larus delawarensis

Gumweed, Grindelia spp., Grindelia squarrosa

Guppy, Poecilia reticulata

Gutierrezia spp.: 5 6, 21.

Gymnogyps californianus: 14 3.

Haddock, Melanogrammus aeglefinus

Haematobia irritans: 13 16.

Haematopus ostralegus: 5 14.

Hagfish, Atlantic, Myxine glutinosa

Hake

Blue, Antimora rostrata

Red, Urophycus chuss

Haliaeetus albicilla: 10 63.

Haliaeetus leucocephalus: 1 31; 7 17, 32, 52; 10 33, 41, 74; 14 2, 38, 51, 74, 81, 103.

Haliaeetus sp.: 10 41.

Halibut, Atlantic, Hippoglossus hippoglossus

Halichoeres grypus: 10 43.

Haliotis rufescens: 2 5; 6 9; 14 71.

Hamster

Chinese, Cricetus spp.

Golden, Cricetus spp.

Haplopappus spp.: 5 21.

Hardy head, small-mouthed, Atherinasoma microstoma

Hare, Lepus europaeus

Hawk

Cooper's, Accipiter cooperii

Pigeon (= Merlin), Falco columbarius

Red-shouldered, Buteo lineatus

Red-tailed, Buteo jamaicensis

Hawthorn, Crataegus spp.

Heather, Scotch, Calluna vulgaris

Helianthus spp.: 4 iv, 21.

Helisoma campanulata: 12 46.

Helisoma sp.: 8 19.

Helisoma trivolvis: 13 7.

Helix aspersa: 3 23.

Helix spp.: 14 57.

Hemicentrotus sp.: 6 37.

Hemicromus bimaculatus: 15 46.

Hemifusus spp.: 12 27, 81.

Hen, guinea, Gallus sp.

Hermione hystrix: 6 35, 36.

Heron

Black-crowned night-, Nycticorax nycticorax

Gray, Ardea cinerea

Great blue, Ardea herodias

Green-backer (= Green, Striated), Butorides striatus

Little green, Butorides virescens (= striatus)

Yellow-crowned night-, Nycticorax violaceus

Herring, Pacific, Clupea harengus pallasi

Hexagenia bilineata: 11 38.

Hexagenia sp.: 5 16; 9 19; 11 41.

Himantopus mexicanus: 5 20.

Hinnites multirugosus: 10 20.

Hippoglossus hippoglossus: 15 31.

Hirundo rustica: 14 38, 39, 52.

Hog, Sus spp.

Hogchoker, Trinectes maculatus

Holothurian, sea cucumber, Stichopus

Homarus americanus: 2 7, 29; 10 24; 11 27, 31, 32; 12 29, 35; 14 67; 15 29, 44.

Homo sapiens: 1 iii, 1, 18, 27, 30, 33; 2 1, 16, 26, 27, 31-34; 3 iii, 3, 15, 16, 25, 27; 4 iii, iv, 4, 13, 14, 18, 20, 21; 5 iv, 1, 2, 5-7, 26, 27, 40-44; 6 iii, 1, 14, 18, 27, 38, 41, 46; 7 iii, 1, 5, 33, 54, 55, 57-59, 61; 8 iii, 1-3, 16, 24, 28; 9 iii, 1, 18; 10 iii, 1, 2, 4, 10-12, 17, 40, 44, 54, 56, 62-65, 67-69, 72, 74; 11 iv, 1, 2, 9, 10, 12, 25, 40, 50, 51, 58-60, 62, 63; 12 iii, iv, 1-5, 12, 14, 20, 35, 37, 38, 61, 65, 72-74, 77, 81; 13 1, 24; 14 iii, 1, 2, 5, 7, 11-14, 86, 104-108 108; 15 1-4, 12, 34, 56, 63, 65, 66, 68, 69.

Honeybee, Apis mellifera, Apis spp.

Hordeum vulgare: 12 39.

Hormomyia mutabilis: 10 13.

Hornworm, tobacco, Manduca sexta

Horse, Equus caballus

Hyacinth, water, Eichornia crassipes

Hyalella azteca: 5 31; 11 45.

Hydra, Hydra oligactis, Hydra sp.

Hydra oligactis: 7 37.

Hydra sp.: 1 8.

Hydrodictyon reticulatum: 6 30.

Hydroid, Campanularia

Hyla sp.: 10 47.

Hymenomonas carterae: 12 54.
Hypnum cupressiforme: 11 25, 26; 14 24.
Hypogymnia physodes: 10 21.

Ibis, white-faced, Plegadis chihi
Ictalurus furcatus: 4 6, 7.
Ictalurus melas: 4 9.
Ictalurus nebulosus: 7 12; 8 10, 11, 16; 11 23, 31, 47, 49.
Ictalurus punctatus: 1 7, 8; 2 20; 3 9; 4 4, 6, 9, 11, 14, 15, 16; 5 18, 32, 35; 6 26; 7 38; 8 9, 11, 12, 22; 10 28, 46; 12 25, 47; 13 9; 14 63; 15 45.
Ictalurus spp.: 8 16.
Indoplanorbis exustus: 9 20.
Ipomoea batatas: 9 1.
Ischnura sp.: 2 28.
Ischnura verticalis: 7 37.
Isoperla sp.: 10 23.
Isopod, Asellus sp.
Isurus oxyrinchus: 12 31.

Jackdaw, Corvus monedula
Jewelfish, Hemichromis bimaculatus
Jordanella floridae: 5 32; 9 10, 22; 12 47, 55.

Kale, Brassica oleracea acephala
Kelletia kelletia: 10 20.
Kelp
 Brown, Ecklonia radiata
 Giant, Macrocystis pyrifera
Kestrel, Falco tinnunculus
Kestrel, American, Falco sparverius
Killifish
 Diamond, Adinia xenica
 Freshwater, Fundulus kansae
 Longnose, Fundulus similis
Kingfisher, belted, Ceryle alcyon
Kittiwake, black-legged, Rissa tridactyla
Klebsiella pneumoniae: 12 73.
Knifejaw, striped, Oplegnathus fasciatus
Knot, red, Calidris canutus
Knotted wrack, Ascophyllum nodosum

Lacewing, common green, Chrysopa carnea
Lactuca sativa: 11 25, 26, 35; 14 26, 57.
Lactuca spp.: 2 12; 4 1.
Lagarosiphon major: 12 69.
Lagodon rhomboides: 1 7, 12; 4 10; 5 34; 7 39, 46.
Lagopus lagopus: 10 41; 14 81, 82.

Lagopus mutus: 10 41; 14 100.
Laminaria digitata: 12 26.
Laminaria hyperborea: 12 27.
 Lamprey, Petromyzontidae
Lanistes carinatus: 13 7.
 Lanternfishes, Myctophidae
Laomedea loveni: 2 23.
 Lark
 Horned, Eremophila alpestris
 Southern meadow, Sturnella magna argutula
 Western meadow, Sturnella neglecta
Larus argentatus: 1 26-29, 32; 4 6; 5 15; 7 19; 8 1, 8, 13, 16, 23; 10 34.
Larus atricilla: 2 9; 4 6.
Larus californicus: 10 34.
Larus delawarensis: 4 6; 7 33, 36.
Larus fuscus: 6 14.
Larus marinus: 1 32.
Larus pipixcan: 4 6.
Lecanora conizaeoides: 14 48.
Ledum sp.: 10 21.
 Leeches: 3 1; 5 6, 37; 9 19.
 Leek, Allium porrum
Leiostomus xanthurus: 4 15; 7 39, 46.
Lemna media: 15 46.
Lemna minor: 6 30.
 Lepidoptera: 3 26; 4 1, 19; 14 30.
Lepisosteus oculatus: 4 7.
Lepomis cyanellus: 3 9; 4 9; 5 18, 30, 35; 12 25, 55; 13 20.
Lepomis gibbosus: 6 12; 7 12; 10 28.
Lepomis macrochirus: 1 8, 12, 13; 2 31; 3 9; 4 7, 9; 5 17, 32, 37; 6 21, 26,
 31, 41; 7 37; 9 8, 10; 11 37, 40-43, 45; 12 25, 47, 53, 55, 75; 13 8,
 18, 20; 14 33, 63; 15 45.
Lepomis megalotis: 14 33.
Lepomis microlophus: 4 9.
Lepomis punctatus: 8 8.
Leptinotarsa decemlineata: 12 5.
Leptonychotes weddelli: 7 34.
Lepus europaeus: 7 24; 14 82.
Lepus sp.: 1 6; 3 15; 4 8; 5 28; 6 27, 38, 39; 7 42, 54, 55; 8 1, 12, 13,
 24-26; 9 13, 16; 10 64; 11 1, 12; 12 72, 73; 14 91; 15 58, 59, 61.
 Lettuce, Lactuca sativa, Lactuca spp.
Leuciscus idus melanotus: 15 40, 46.
Leucospius delineatus: 2 27.
Leuresthes tenuis: 13 6, 8, 11.
 Lichen, Hypogymnia, Lecanora, Parmelia
 Lily, water, Nuphar luteum
Limanda limanda: 2 8; 12 52; 15 38.
Limanda sp.: 12 35.

Limnodrilus hoffmeisterei: 3 10; 15 27.
Limnodrilus sp.: 11 45.
 Limpet,
 Slipper, Crepidula fornicata
 Various, Acmaea, Littorina, Patella
 Limpkin, Aramus guarauna
Lithobius variegatus: 14 57.
Littorina littorea: 2 5; 6 10; 12 28.
 Loach, Misgurnis fossilis
 Lobster
 American, Homarus americanus
 Spiny, Nephrops, Panulirus
 Western rock, Panulirus cygnus
 Lobsters: 6 35; 11 32; 12 29, 81.
 Locoweed, Astragalus spp.
Loligo vulgaris: 12 28.
Lolium perenne: 7 11.
 Longspur, chestnut-collared, Calcarius ornatus
 Loon
 Arctic, Gavia arctica
 Common, Gavia immer
Lophius piscatorius: 6 37.
Lophodytes cucullatus: 7 19.
 Louse, wood, Oniscus, Porcellio
 Lugworm, Arenicola cristata
Lumbricus herculeus: 3 18.
Lumbricus rubellus: 8 17.
Lumbricus sp.: 3 18.
Lumbricus terrestris: 3 18; 14 30.
Lutjanus griseus: 11 43.
Lutra canadensis: 5 23; 7 10, 24, 33, 34; 10 36, 43, 54, 55, 64.
Lycopersicon esculentum: 4 1; 10 25; 11 35.
 Lygaeidae: 4 1.
Lymnaea palustris: 14 59.
Lymnaea peregra: 14 72.
Lymnaea stagnalis: 15 39.
Lymnaea sp.: 15 45.
Lynx rufus: 10 36.
Lysmata caudata: 5 37.
Lysmata seticaudata: 5 13; 12 54, 55.
Macaca fascicularis: 14 94; 15 56.
Macaca iris: 14 94.
Macaca mulatta: 1 17; 3 8, 15; 7 iv, 54, 55, 58, 60; 8 25, 26; 10 54, 55, 65;
14 95.
Macaca sp.: 3 16; 10 66; 12 66.
Machaeranthera spp.: 5 6.
Macoma balthica: 12 51; 14 86.

Macoma nasuta: 3 10.
Macrobrachium lamarrei: 6 20, 30.
Macrobrachium rosenbergerii: 1 4.
Macrocystis pyrifera: 6 33.
Macromia sp.: 7 37.
Macrosiphium gei: 10 25.
Magpie, black-billed, Pica pica
Makaira indica: 2 8; 5 14; 10 28.
Makaira nigricans: 5 14; 10 28.
Malacosoma americanum: 14 30, 48.
Mallard, Anas platyrhynchos
Malus malus: 5 5; 12 6; 15 65, 69.
Malus sylvestris: 12 22.
Man, Human, Child, Infant, Homo sapiens
Manatee, Tricheschus manatus
Manduca sexta: 9 25.
Mangrove, Bruguiera, Rhizophora
Maple, red, Acer rubrum
Marlin
 Black, Makaira indica
 Blue, Makaira nigricans
Marmoset, Callithrix jacchus
Marmota monax: 5 23; 15 32.
Marten, Martes martes
Martes martes: 10 64.
Mastotermes darwinensis: 1 20, 33.
Matteuccia struthiopteris: 7 44.
Meadowlark, Sturnella spp.
Medaka, Oryzias latipes
Medicago sativa: 3 iii, 1, 23, 27, 28; 4 1, 18; 9 1; 10 21; 12 22, 39.
Meganyctiphanes norvegica: 5 12, 37.
Melanogrammus aeglefinus: 5 34; 10 48.
Melanoplus spp.: 12 56.
Meleagris gallopavo: 4 7; 9 iii, 8, 14; 12 4, 56, 59, 76, 77; 13 10, 12, 15;
 14 2; 15 8.
Menhaden, Atlantic, Brevoortia tyrannus
Menidia beryllina: 13 8, 11.
Menidia menidia: 5 34; 6 22; 13 8, 11.
Menidia peninsula: 13 8, 11.
Menippe mercenaria: 12 29.
Mercenaria mercenaria: 4 10; 6 10, 33; 10 47; 11 40; 12 28.
Merganser
 Common, Mergus merganser
 Hooded, Lophodytes cucullatus
 Red-breasted, Mergus serrator
Mergus merganser: 7 19.
Mergus serrator: 5 20; 7 19.
Mergus spp.: 7 22.

Meriones unguiculatus: 12 12.
Merlin, Falco columbarius
Metamysidopsis elongata: 15 44.
Mice
 Deer, Peromyscus maniculatus
 White-footed, Peromyscus leucopus
Microcystis aeruginosa: 14 58.
Microgadus tomcod: 11 47.
Micropogonias undulatus: 6 37.
Micropterus dolomieu: 8 11; 12 25; 14 33, 64.
Micropterus ochrogaster, see Microtus ochrogaster
Micropterus salmoides: 4 7, 9, 15; 5 17, 37; 6 41; 7 12; 10 28, 46; 11 45; 12 25; 13 20.
Microtus agrestis: 5 6, 23.
Microtus arvalis: 8 12, 16.
Microtus ochrogaster: 1 5, 7, 11, 18, 30, 33; 14 44.
Microtus pennsylvanicus: 2 13; 14 47.
Midge, Chaoborus, Chironomus, Tanytarsus
Midge, phantom, Chaoborus puntipennis
Milkvetch, Astragalus spp.
Millipedes: 3 26; 14 30, 48.
Mimus polyglottos: 12 56.
Mink, Mustela vison
Minnow,
 Cyprinid, Phoxinus, Puntius
 Eastern mud, Umbra pygmaea
 Fathead, Pimephales promelas
 Mud, Umbra limi
 Sheepshead, Cyprinodon variegatus
 Various, Poeciliopsis
Misgurnis fossilis: 15 39.
Mite
 European red, Panonychus ulmi
 McDaniel spider, Tetranychus mcdanieli
 Two-spotted spider, Tetranychus urticae
 Various, Arachnids
Mockingbird, northern, Mimus polyglottos
Mole, Talpa europaea
Molothrus ater: 3 12; 7 36, 40; 10 54; 12 56, 59.
Monkey
 Cynomolgus, Macaca spp.
 Rhesus, Macaca mulatta
 Squirrel, Saimiri spp.
Monkeys: 4 18; 5 26; 7 55; 8 24, 28, 29; 9 iii, 27; 11 1; 14 iii, 3, 87, 99, 108; 15 4, 61.
Montastrea annularis: 14 31.
Moose, Alces alces
Morone saxatilis: 2 8, 17, 23; 4 10; 5 14; 6 21; 7 13, 31, 47, 60; 10 28, 40,

59; 12 26, 31; 13 6, 7.
Mosquito, Aedes, Culex,
Mosquitofish, Gambusia affinis
Moss
 Irish, Chondrus crispus
 Various, Brachythecium, Hylocomium, Hypnum, Sphagnum
Moth
 Codling, Carpocapsa pomonella
 Greater wax, Galleria melonella
 Pineapple gummosis, see Lepidoptera
Mouse
 Beach, or Old field, Peromyscus polionotus
 Field, Microtus arvalis
 Domestic, Mus spp.
 Western jumping, Zapus princeps
 Wood, Apodemus sylvaticus
Moxostoma duquesnei: 14 33.
Mudalia potosensis: 11 38.
Mugil cephalus: 1 15; 4 6; 12 31; 13 8.
Mullet
 Gray, Chelon labrosus
 Striped, Mugil cephalus
 Yellow-eye, Aldrichetta forsteri
Mullus barbatus: 15 27.
Mummichog, Fundulus heteroclitus
Murre, common, Uria aagle
Murrel, Channa punctatus
Mus spp.: 1 4, 6, 7, 10; 2 24, 26, 31; 3 11, 13, 24, 25; 4 8, 18; 5 39; 6 27,
 38, 39, 44; 7 41, 49, 55; 8 24-27; 9 iv, 8, 13, 16, 18, 24-26; 10 67;
 11 1, 51-56, 62, 63; 12 12, 36, 38, 66, 73; 14 iii, 12, 53, 55, 87, 92,
 99, 104; 15 4, 8, 10, 52-55, 57, 59-61, 64, 65.
Musca domestica: 3 17, 18; 9 13.
Musca sp.: 3 23.
Muscidae: 1 21; 9 iii, 1, 3; 13 1.
Muskrat, Ondatra zibethicus
Mussel
 Common, Mytilus edulis
 Duck, Anodonta anatina
 Various, M. californianus, M. edulis planulatus, M. galloprovincialis
Mussels: 5 16; 6 88; 10 61; 11 25, 28; 12 53; 15 20, 37.
Mustela putorius furo: 7 41, 43, 54; 10 64; 14 99.
Mustela vison: 7 iv, 10, 24, 33, 41-43, 53, 54, 58, 60, 61; 10 37, 43,
 54-56, 64, 66, 74.
Mustelus antarcticus: 12 35.
Mustelus canis: 6 11.
Mya arenaria: 6 33, 34; 10 25, 47; 11 27, 29, 32; 14 52, 66; 15 45.
Myctophidae: 14 100.
Myotis griseescens: 7 24.

Myotis lucifugus: 7 25, 34; 14 44, 53.
Myotis spp.: 14 44.
Myoxocephalus scorpius: 2 9.
Myriophyllum spicatum: 6 30.
Mysidopsis bahia: 4 10, 15; 5 33; 6 26; 9 11, 22; 10 48, 59; 12 51; 13 6, 7; 14 66; 15 45.
Mysidopsis spp.: 2 16, 23; 7 27.
Mysis relicata: 7 11, 29.
Mystus vittatus: 3 9, 20, 21.
Mytilus californianus: 10 25, 43; 11 48.
Mytilus edulis: 2 5; 3 10; 5 12; 6 10, 34; 10 25, 48; 11 28, 32, 45; 12 28, 51; 14 31, 65, 66; 15 30, 41, 42, 48.
Mytilus edulis planulatus: 2 5.
Mytilus galloprovincialis: 5 12, 30, 37; 12 53.
Myxine glutinosa: 11 47.

Nais sp.: 6 23.
Najus guadalupensis: 14 71.
Nassarius obsoletus: 12 51; 15 45, 49.
Natrix sp.: 5 17.
Navicula sp.: 14 70.
Neanthes arenaceodentata: 6 22, 24, 26, 36; 11 37-39, 43; 14 66.
Nematode, Brugia, Bursaphelenchus, Panagrellus, Parafilaria
Nematodes: 9 iii, 1; 15 15.
Nephrops norvegicus: 10 24.
Nephtys hombergi: 2 7.
Neptunus pelagicus: 10 13.
Nereis diversicolor: 2 7; 6 10.
Nereis virens: 5 36; 6 22; 7 47; 11 45.
Neritina sp.: 15 45.
Nerodia cyclopion: 7 15.
Nerodia rhombifera: 7 17.
Nerodia sipedon: 14 35.
Nerodia spp.: 7 31.
Nicotiana tabacum: 2 12; 3 4, 23; 5 22; 6 13, 42; 10 22; 12 6.
Nicrophorus tomentosus: 14 31.
Nitroca spinipes: 15 44, 47.
Nitzschia liebenthutti: 15 48.
Nostoc muscorum: 3 18.
Notopterus notopterus: 10 46, 59.
Notropis hudsonius: 8 11; 12 48.
Notropis venustus: 4 7.
Nucella lapillus: 15 49.
Nucellus lapillus: 15 30, 40.
Nuphar luteum: 2 10.
Nycticorax nycticorax: 1 32; 7 19, 32, 52; 8 1.
Nycticorax violaceus: 4 7.

Oak, Quercus spp.
Oat, Avena sativa
Oceanodroma furcata: 1 32.
Octochaetus pattoni: 10 57, 68.
Octopus, Paroctopus sp.
Odobenus rosmarus: 2 10.
Odocoileus hemionus: 4 12; 10 54, 56, 64; 12 68, 72; 14 53, 104.
Odocoileus virginianus: 2 14; 5 23; 12 34, 68; 14 45, 53; 15 32.
Odonata: 9 19.
Oedogonium cardiacum: 3 22; 5 31; 8 19; 11 42.
Oedogonium sp.: 6 30.
Okra, Abelmoschus esculentus
Oligochaetes: 7 29; 15 27, 48.
Olisthodiscus Tutens: 6 32.
Ommastrephes bartrami: 2 5.
Oncorhynchus gorbuscha: 11 38; 12 52.
Oncorhynchus keta: 12 49.
Oncorhynchus kisutch: 1 7, 8, 27, 29; 2 18; 3 9; 4 9; 5 18, 32; 6 31; 7 14, 30, 31, 49; 8 11, 12, 18, 21; 11 38; 12 26; 14 69.
Oncorhynchus spp.: 6 21, 23, 25.
Oncorhynchus tshawytscha: 1 27; 2 17; 5 18; 6 31; 7 30, 61; 15 34.
Ondatra zibethicus: 10 37, 43; 14 45; 15 32.
Onion, Allium sp.
Oniscus asellus: 14 57.
Onopsis spp.: 5 6.
Ophioderma brevispina: 15 42.
Oplegnathus fasciatus: 9 8, 11.
Opsanus beta: 13 9, 10, 11.
Orange, Mandarin, Citrus tachibana
Orchestia traskiana: 15 45.
Orconectes immunis: 13 7.
Orconectes limosus: 10 46.
Orconectes nais: 7 37, 45; 14 71.
Orconectes virilis: 10 23.
Orfe, golden, Leuciscus idus melanotus
Oryctolagus cuniculus: 13 14; 15 10, 11, 52, 64.
Oryza sativa: 3 iii, 1, 8, 19, 27; 5 22; 8 29; 9 1; 10 22; 12 39, 40; 14 26.
Oryzaephilus surinamensis: 13 1.
Oryzias latipes: 2 22.
Osmerus mordax: 1 27, 29; 8 11; 15 31.
Osprey, Pandion haliaetus
Ostrea edulis: 15 2, 30, 42.
Otter
 River, Lutra canadensis
 Sea, Enhydra lutris
Otus asio: 7 52, 60.
Ovis aries: 3 13; 9 14, 27; 10 37; 12 68, 69; 14 iii, 3, 12, 45, 55, 87, 92-94, 99; 15 33.

Ovis canadensis: 6 15.

Ovis sp.: 1 33; 3 24; 4 8, 18, 19; 5 1, 26, 28, 29, 41; 9 1, 24; 10 43; 12 3;
15 15, 60, 64, 68.

Owl

Barn, Tyto alba

Eagle, Bubo bubo

Great horned, Bubo virginianus

Long-eared, Asio otus

Screech, Otus asio

Oyster

American, Crassostrea virginica

European flat, Ostrea edulis

Pacific, Crassostrea gigas

Sydney rock, Crassostrea commercialis

Oystercatcher, Eurasian, Haematopus ostralegus

Oysters: 5 27; 6 17, 34, 44; 7 48, 49; 11 40; 15 11, 20, 27, 34, 43, 70.

Pachymetopan grande: 6 37.

Pacifastacus sp.: 10 23.

Pagophilus groenlandica: 10 54, 56, 65, 74.

Pagurus longicarpus: 2 16.

Paintbrush, Indian, Castilleja spp.

Palaemon macrodactylus: 4 10.

Palaemonetes kadiakensis: 4 9; 7 37, 45.

Palaemonetes pugio: 2 7; 4 10; 6 35; 7 38; 11 37-39; 13 7; 14, 31; 15
45, 48.

Palaemonetes vulgaris: 1 12, 15, 21, 22; 2 16.

Palm, Iraqi date, Phoenix sp.

Panagrellus redivivus: 9 25, 28.

Pandalus borealis: 12 29, 35.

Pandalus montagui: 2 7; 14 31.

Pandalus spp.: 12 29.

Pandion haliaetus: 4 7; 6 14; 10 34; 12 21, 32.

Panonychus ulmi: 15 65.

Pantala hymenea: 2 28.

Panthers: 14 99.

Panulirus cygnus: 12 35.

Panulirus interruptus: 2 7.

Papio anubis: 14 95, 99.

Paracentrotus lividus: 14 31.

Parafilaria bovicola: 12 12.

Paralichthys dentatus: 5 34.

Paralithodes camtschatica: 12 29.

Paramecium caudatum: 11 48.

Paranaïs sp.: 8 19.

Parmelia baltimorensis: 14 23, 24.

Paroctopus sp.: 12 35.

Parophrys vetulus: 11 45, 46, 48; 12 32.

Partridge, gray, Perdix perdix

Paspalum notatum: 1 21, 23.

Passer domesticus: 3 12, 15; 5 23; 9 9; 10 52; 13 13; 14 39.

Patella caerulea: 15 27, 30.

Pea, Pisum sativum

Peanut, Arachis hypogea

Pear, Pyrus communis

Pecten alba: 12 35.

Pecten maximus: 2 6; 15 30, 34.

Pelecanus occidentalis: 2 10; 4 7; 5 14; 6 14; 10 34; 12 21, 32; 14 39.

Pelecanus sp.: 4 14; 7 34, 53.

Pelican

Brown, Pelecanus occidentalis

Various, Pelecanus sp.

Penaeopsis joyneri: 9 20.

Penaeus aztecus: 5 34; 7 38; 9 11; 11 38, 40; 12 29; 13 6.

Penaeus duorarum: 4 10; 7 38; 11 40, 43.

Penaeus indicus: 10 48.

Penaeus tatisulcatus: 12 35.

Penaeus setiferus: 10 61; 12 29; 13 21.

Penaeus sp.: 2 7.

Penguin, Adelie, Pygoscelis adeliae

Perca flavescens: 3 9; 4 9; 5 32; 7 38, 48; 8 11, 16; 10 29; 12 26; 15 31.

Perch

Climbing, Anabas testudineus

Yellow, Perca flavescens

Perdix perdix: 4 12; 7 20; 10 2, 52, 62; 12 60.

Periwinkle, Littorina littorea

Pernis apivorus: 14 2, 3.

Peromyscus leucopus: 2 25; 3 15; 7 41, 56; 9 iv, 2, 23, 24, 26; 14 45, 47, 53; 15 61.

Peromyscus maniculatus: 11 54; 14 45, 46, 53; 15 33.

Peromyscus polionotus: 1 7, 17; 3 13-15; 8 8.

Petrel, storm, Oceanodroma furcata

Petromyzontidae: 11 33.

Phaeodactylum tricornutum: 2 22; 14 65, 70.

Phalacrocorax auritus: 7 20, 32; 8 8, 13.

Phalacrocorax carbo: 7 21, 36.

Phalacrocorax sp.: 1 32.

Phaseolus sp.: 3 23; 4 1.

Phaseolus vulgaris: 7 29; 14 56.

Phasianus colchicus: 1 6, 7; 2 12; 3 12, 14; 4 8, 12, 17; 5 23; 7 21, 33, 40; 9 iv, 1, 14, 23, 30; 10 2, 34, 50, 52, 54, 63, 71; 12 60; 13 13, 15; 14 12.

Phasianus sp.: 3 8, 16; 5 6; 7 52, 53; 14 86.

Pheasant, ring-necked, Phasianus colchicus

Philodena acuticornis: 6 20.

Philohela minor, see Scolopax minor

Phleum pratense: 7 11.
Phoca groenlandica: 6 12; 10 43.
Phoca hispida: 5 15; 7 25; 10 61, 64.
Phoca spp.: 5 15, 25.
Phoca vitulina: 5 15; 7 34; 10 37; 12 34; 14 53; 15 33.
Phoenix sp.: 13 23.
Phoxinus phoxinus: 7 48; 12 48.
Physa heterostropha: 6 20.
Physa sp.: 5 31; 8 19; 11 42, 46.
Physeter macrocephalus: 7 25.
Pica pica: 10 54.
Picea abies: 14 26, 48.
Picea alba: 12 22.
Pickerel, chain, Esox niger
Pieris brassicae: 9 6, 13.

Pig
Guinea, Cavia spp.
Domestic, Sus spp.

Pigeon, domestic, Columba livia,
Pike, northern, Esox lucius
Pimephales promelas: 1 8, 12, 13, 18; 2 31; 3 9; 4 9, 11, 14-16; 5 32; 6
24-26; 7 51; 8 18, 22; 9 10, 18, 22; 10 58; 11 38, 41; 12 48, 55; 13 6,
7, 20; 14 64; 15 46.

Pine
Mugho, Pinus sp.
Shortleaf, Pinus echinata
Pinfish, Lagodon rhomboides
Pinna nobilis: 6 33.
Pinnipeds: 14 99.
Pintail, northern, Anas acuta
Pinus echinata: 14 26.
Pinus silvestrus: 12 22, 41.
Pinus sp.: 3 4, 15, 23; 12 41.
Pisum sativum: 4 19; 12 39, 41.
Pitar morrhuanus: 6 10.
Pitymys (= Microtus) pinetorum: 14 91.
Placopecten magellanicus: 2 6; 11 28; 12 28.
Plaice, Platichthys flesus, Pleuronectes platessa
Plant, marine flowering, Posidonia oceanica
Platichthys flesus: 2 8; 7 31, 48, 60; 11 40; 14 33.
Platymonas subcordiformis: 14 70.
Plegadis chihi: 5 14.
Pleuronectes flesus: 10 61.
Pleuronectes platessa: 14 67.
Plumaria elegans: 12 50.
Poa annua: 12 6, 39.
Pochard, Aythya ferina
Podiceps cristata: 10 35.

Podiceps nigricollis: 5 20.
Podiceps spp.: 7 22.
Podicipediformes: 10 12.
Podilymbus podiceps: 4 6.
Podoclavella moluccensis: 6 11.
Podophthalmus vigil: 6 34.
Poecilia reticulata: 3 21; 4 9; 5 6, 37; 8 18, 21, 28; 10 61; 14 71; 15 46.
Poeciliopsis spp.: 11 36, 48.
Polecat, Mustela putorius furo
Polychaetes, Capitella, Neanthes, Nereis
Pomatomus saltatrix: 2 8; 10 40.
Pomoxis annularis: 2 11.
Pontoporeia affinis: 2 23, 29.
Pontoporeia hoyi: 11 45.
Populus tremuloides: 7 11.
Porcellio scaber: 14 48, 57.
Porcellio sp.: 5 22.
Porcupine, Erethizon dorsatum
Porgy, Pachymetopan grande
Porgy, black, Sparus macrocephalus
Porphyra martinica: 4 7.
Porthetria dispar: 14 31.
Porzana carolina: 14 40.
Posidonia oceanica: 10 22.
Potamogeton crispus: 2 3; 15 4.
Potamogeton foliosus: 14 71.
Potamogeton richardsoni: 2 10.
Potamogeton spp.: 12 23; 14 27.
Potato
 Common, Solanum tuberosum
 Sweet, Ipomoea batatas
Prawn
 Deep sea, Pandalus borealis
 Freshwater, Macrobrachium lamarrei, M. rosenbergii
 Various, Pandalus montagui, Pandalus spp., Penaeus indicus, Penaeus latisulcatus
Prionace glauca: 12 35.
Pristina sp.: 2 21.
Procambarus acutus acutus: 3 9.
Procambarus blandisi: 1 4, 12, 21.
Procambarus clarkii: 1 14, 18; 9 19; 13 7.
Procambarus spp.: 4 7.
Procyon lotor: 1 21; 5 24; 7 41, 56; 10 38, 43; 14 46, 99, 104.
Pronghorn, Antilocapra americana
Prosopium cylindraceum: 10 29; 15 31.
Protozoan, Chilomonas, Cristigera, Entosiphon, Paramecium, Tetrahymena,
 Uronema
Prunus avium: 10 22.

Prunus serotina: 14 27, 48.

Psettichthys melanostictus: 11 40, 42.

Pseudagrion spp.: 13 7.

Pseudomonas sp.: 3 6; 5 4; 9 3; 15 4.

Pseudopleuronectes americanus: 2 23; 5 34; 8 18; 11 29; 15 31.

Pseudorasbora parva: 9 20.

Ptarmigan

Common, Lagopus mutus

Willow, Lagopus lagopus

Pteronarcella badia: 7 37; 13 6, 7.

Pteronarcys californica: 9 10; 12 46; 13 7.

Pteronarcys dorsata: 12 46.

Pteronarcys sp.: 4 9.

Ptychocheilus oregonensis: 10 40.

Puffins, Fratercula spp.

Puffinus pacificus: 5 14.

Pumpkinseed, Lepomis gibbosus

Puntius conchonius: 14 64.

Pygoscelis adeliae: 2 9.

Pyrus communis: 4 1; 5 22; 15 65, 69.

Pytiscidae: 2 28.

Quail

California, Callipepla californica

Common, Coturnix coturnix

Coturnix, Coturnix risoria

Japanese, Coturnix japonica

Quelea, Quelea quelea

Quelea quelea: 3 12, 15.

Quercus spp.: 12 41.

Quiscalus mexicanus: 4 6.

Quiscalus quiscula: 3 12, 17; 7 36, 52; 10 54; 13 13.

Rabbit,

Various, Lepus, Oryctolagus, Sylvilagus

White, Oryctolagus cuniculus

Raccoon, Procyon lotor

Racerunner, six-lined, Cnemidophorus sexlineatus

Radish, Raphanus sativus

Rail

Clapper, Rallus longirostris

Sora, Porzana carolina

Raja erinacea: 8 18.

Raja sp.: 12 32, 35.

Rallus longirostris: 1 32; 4 7.
Rana catesbeiana: 8 20; 9 10; 10 30; 13 6; 14 34, 50, 72.
Rana clamitans: 14 50.
Rana pipiens: 6 12; 10 30, 47, 59; 11 49; 14 72.
Rana sphenocephala: 4 9.
Rana spp.: 12 32; 14 34.
Rana temporaria: 15 46.
Rana temporia: 10 31.
Rana utricularia: 14 72.
Rangia cuneata: 3 10, 22; 6 34; 11 36, 41, 43, 44.
Rangifer tarandus: 10 64; 14 100.
Raphanus sativus: 14 56.
Rasbora heteromorpha: 15 46.

Rat

Cotton, Sigmodon hispidus
Laboratory white, Rattus spp.
Norway, Rattus norvegicus

Rattus norvegicus: 5 24; 7 41; 13 14; 14 46, 47.
Rattus spp.: 1 3-7, 10, 16; 2 iii, 19, 31; 3 11, 13, 15, 16, 23-25; 4 4, 8, 18, 5 iv, 26-29, 39, 41, 43, 44; 6 18, 27, 38-40; 7 41-43, 49, 54, 55, 58, 60; 8 24-29; 9 iv, 8, 13, 14, 24, 26, 30; 10 12, 65, 66; 11 1, 49, 51-53, 55, 63; 12 11, 69, 70, 73; 14 iii, 12-15, 55, 87, 95-97, 99, 108; 15 3, 4, 8, 10, 11, 52-64, 68

Ray, Raja sp.

Recurvirostra americana: 5 20.

Redhead, Aythya americana

Redhorse, black, Moxostoma duquesnei

Redshank, Icelandic, Tringa totanus robusta

Rhizophora spp.: 1 12; 10 20.

Rice,

Domestic, Oryza sativa
Wild, Zizania aquatica

Rissa tridactyla: 7 21.

Rithropanopeus harrisi: 4 10; 15 36, 45.

Robin,

American, Turdus migratorius
European, Erythacus rubecula

Rotifer, Brachionus plicatilis

Rudd, Scardinius erythrophthalmus

Rye, Secale cereale

Rye, perennial, Lolium perenne

Rynchos niger: 7 21, 32.

Saccharum officinarum: 3 1; 8 29.

Saccobranchus fossilis: 3 9.

Sagebrush, big, Artemisia tridentata

Saguinus fuscicollis: 9 1.

Saimiri spp.: 6 18.

Salamander

Marbled, Ambystoma opacum

Tiger, Ambystoma tigrinum

Salmo clarki: 7 38; 9 10; 13 8.

Salmo gairdneri: 1 8; 2 11, 18, 27, 28; 3 9; 4 3, 9; 5 26, 33, 35, 36, 40, 41; 6 20, 24-26, 31, 32; 7 31, 37, 47-49, 57, 60; 8 8, 11, 18, 20, 28; 9 8, 10; 10 46, 49, 59-61; 11 15, 37, 41, 43, 44, 48; 12 26, 48, 53, 55; 13 8; 14 13, 55, 57, 60-62, 69; 15 37, 43, 47.

Salmo salar: 1 12, 13; 2 22; 5 26; 7 31, 48; 11 41, 43; 12 26; 15 32, 34.

Salmo spp.: 10 29.

Salmo trutta: 3 9; 4 9; 5 36; 7 47, 49; 8 11; 11 33.

Salmon

Atlantic, Salmo salar

Chinook, Oncorhynchus tshawytscha

Chum, Oncorhynchus keta

Coho, Oncorhynchus kisutch

Pink, Oncorhynchus gorbuscha

Various, Salmonidae

Salmonella: 2 31; 3 25; 4 18.

Salmonella typhimurium: 3 25; 6 30; 7 55; 8 17; 11 34, 49; 12 35.

Salmonidae: 5 iii, 18; 7 10, 47, 54; 10 40; 15 34, 70.

Saltbush, Atriplex spp.

Salvelinus fontinalis: 1 13, 18, 27; 2 18, 20, 22; 4 14, 15, 16; 5 33; 6 26; 7 12, 31, 48, 49, 51; 9 10, 18, 20, 22; 10 29, 46, 49, 59-61, 70, 74; 12 49; 14 62, 63.

Salvelinus namaycush: 1 27; 3 9; 4 5; 5 27, 35; 6 12, 26; 7 27, 31, 47, 60, 61; 8 8, 11; 9 10; 10 29; 12 26; 13 9; 14 62; 15 32.

Sanddab, speckled, Citharichthys stigmaeus

Sandpiper

Solitary, Tringa solitaria

Spotted, Actitis macularia

Various, Calidris, Erolia

Sarcorhampus papa: 14 3.

Sargassum fluitans: 12 27.

Sargassum sp.: 12 27.

Sauger, Stizostedion canadense

Scallop

Bay, Argopecten irradians

Giant, Placopecten magellanicus

Pacific, Chlamys ferrei nippensis

Rock, Hinnites multirugosus

Various, Pecten

Scardinus erythrophthalmus: 6 31.

Scaup, lesser, Aythya affinis

Scenedesmus obliquus: 12 44, 45.

Scenedesmus quadricauda: 7 48; 15 38.

Sciurus carolinensis: 2 14; 10 38.

Sciurus hudsonicus: 2 14.

Scolopax minor: 1 31; 3 18; 7 21.

Scombridae: 5 13.

Scophthalmus aquosus: 7 13, 31; 11 30; 12 32.

Screech-owl, eastern, Otus asio

Scripsiella faeroense: 10 59.

Scrobicula plana: 2 6.

Scud, Gammarus, Hyalella

Sculpin, shorthorn, Myoxocephalus scorpius

Sea-eagle, white-tailed, Haliaeetus albicilla

Sea lion, California, Zalophus californianus

Sea urchin, Anthocidaris, Arbacia, Echinodermata, Hemicentrotus, Paracentrotus

Seal

Australian fur, Arctocephalus pusillus

Gray, Halichoerus grypus

Harbor, Phoca groenlandica, P. vitulina

Harp, Pagophilus groenlandica

Northern fur, Callorhinus ursinus

Ringed, Phoca hispida

Weddell, Leptonychotes weddell

Seatrout, spotted, Cynoscion nebulosus

Secale cereale: 5 2; 6 13; 11 26; 12 12.

Selenastrum capricornutum: 12 45; 14 58, 71.

Sepioteuthis australis: 12 35.

Sergestes lucens: 12 30.

Seriola quinqueradiata: 9 9.

Sesarma cinereum: 4 10.

Sesarma heamatocheir: 6 24.

Shad

Gizzard, Dorosoma cepedianum

Threadfin, Dorosoma petenense

Shark

Blue, Prionace glauca

Shortfin mako, Isurus oxyrinchus

Various, Carcharhinus, Mustelus, Sphyrna

Whitetip, Carcharhinus longimanus

Sharks: 10 40, 74.

Shearwater, wedge-tailed, Puffinus pacificus

Sheep

Bighorn, Ovis canadensis

Domestic, Ovis aries, Ovis sp.

Shell

Ivory, Buccinum striatissimum

Spindle, Hemifusus

Shiner

Blacktail, Notropis venustus

Spottail, Notropis hudsonius

Shoveler, northern, Anas clypeata

Shrew

Common, Sorex araneus

Short-tailed, Blarina brevicauda

Shrimp

Brine, Artemia salina

Brown, Penaeus aztecus

Glass, Palaemonetes kadiakensis

Grass, Palaemonetes pugio, P. vulgaris

Korean, Palaemon macrodactylus

Mysid, Metamysidopsis, Mysidopsis, Mysis

Pink, Penaeus duorarum

Sand, Crangon crangon

Various, Lysmata, Penaeopsis, Sergestes

White, Penaeus setiferus

Shrimps: 5 17, 37; 6 35; 7 38, 47, 48; 9 iii, 8; 10 24; 12 29, 30, 81; 13 19; 15 37.

Sicklepod, Cassia spp.

Sigmodon hispidus: 6 5, 15, 42.

Silkworm, Bombyx mori

Sillago bassensis: 12 56.

Silverside

Atlantic, Menidia menidia

Inland, Menidia beryllina

Tidewater, Menidia peninsula

Simocephalus serrulatus: 2 17; 9 10; 12 47.

Simocephalus sp.: 4 9.

Simulium sp.: 14 31.

Siphonoptera: 9 3; 13 1.

Skate, little, Raja erinacea

Skeletonema costatum: 2 22; 12 50; 14 65; 15 38-40, 43, 45, 47.

Skimmer, black, Rynchops niger

Skipper, mud, Boleophthalmus dussumieri

Skua, great, Catharacta skua

Slug, Agriolimax reticulatus

Smelt, rainbow, Osmerus mordax

Snail

Land, Helix aspersa

Mud, Nassarius obsoletus

Pond, Cipangopaludina malleata

Ram's horn, Helisoma trivolvis

Red, Indoplanorbis exustus

Various, Amnicola, Arcularia, Australorbis, Biomphalaria, Bulinus,
Helisoma, Helix, Lanistes, Lymnaea, Mudalia, Neritina, Physa,
Viviparus

Snake

Garter, Thamnophis sp.

Northern water, Nerodia sipedon

Water, Natrix, Nerodia

Snapper, mangrove, Lutjanus griseus

Solanum tuberosum: 5 22; 12 6, 12; 14 27.

Sole

English, Parophrys vetulus
Sand, Psettichthys melanostictus
Various, Limanda, Solea, Trinectes

Solea solea: 7 8; 15 44.

Solenopsis invicta: 1 iii, 1, 11, 20, 21, 23, 24, 33; 13 1.

Solidago graminifolia: 7 11.

Somateria mollissima: 1 32; 2 9; 6 14.

Sorex araneus: 14 47.

Sorghum, Sorghum halopense

Sorghum halopense: 3 22; 12 68.

Soybean, Glycine max

Sparrow

Chipping, Spizella passerina

House, Passer domesticus

Sparrowhawk, European, Accipiter nisus

Spartina alterniflora: 10 20; 12 53.

Spartina spp.: 6 9.

Sparus macrocephalus: 10 14.

Spermophilus variegatus: 5 24.

Sphagnum spp.: 10 22.

Sphyngidae: 12 6.

Sphyrna spp.: 10 29.

Spider, Araneus umbricatus

Spinach, Spinacia oleracea

Spinacia oleracea: 11 35.

Spizella passerina: 2 27.

Spot, Leiostomus xanthurus

Spruce, Picea spp.

Squalus acanthias: 12 32; 15 32.

Squawfish, northern, Ptychocheilus oregonensis

Squid, Loligo, Ommastrephes, Sepioteuthis

Squids: 6 10.

Squirrel

Gray, Sciurus carolinensis

Red, Sciurus hudsonicus

Rock, Spermophilus variegatus

Stanleya spp.: 5 6.

Starfish, Asterias forbesi

Starling, European, Sturnus vulgaris

Stelgidopteryx serripennis: 14 40.

Stenella coeruleoalba: 10 38, 43.

Sterna forsteri: 4 6; 8 8, 13.

Sterna fuscata: 5 14.

Sterna hirundo: 2 10; 10 63; 14 82.

Sterna maxima: 5 14.

Sterna paradisaea: 7 22.

Stichopus japonicus: 12 35.

Sickleback

Fourspine, Apeltes quadracus

Threespine, Gasterosteus aculeatus

Stilt, black-necked, Himantopus mexicanus

Stizostedion canadense: 2 11.

Stizostedion vitreum vitreum: 2 11, 20; 6 26; 7 14; 10 29.

Strawberry, Fragaria vesca

Streptopelia capicola: 1 9.

Streptopelia risoria: 2 24; 7 36, 50, 53, 60; 8 23; 13 14; 14 82, 83.

Sturgeon

Sevyuga, Accipenser stellatus

Sheep, Accipenser nudiventris

Sturnella magna argutula: 8 8.

Sturnella neglecta: 9 29.

Sturnus vulgaris: 1 6; 2 13; 3 12; 7 22, 32, 36, 40; 9 14; 10 54, 62; 12 33; 13 13; 14 40, 41, 52, 84, 107.

Stylodrilus sp.: 11 45.

Sucker, white, Catostomus commersoni

Sugar cane, Saccharum officinarum

Sula leucogaster: 7 23.

Sula sula: 5 14.

Sunfish

Green, Lepomis cyanellus

Longear, Lepomis megalotis

Redear, Lepomis microlophus

Spotted, Lepomis punctatus

Sunflower, Helianthus spp.

Sus spp.: 5 26, 28-30, 39, 44; 8 1, 5, ; 9 iv, 8, 13, 14, 16, 24, 27; 10 12, 54, 55; 12 6, 11, 70, 77, 81; 13 12; 14 86, 98, 99.

Swallow

Barn, Hirundo rustica

Northern rough-winged, Stelgidopteryx serripennis

Swan

Mute, Cygnus olor

Trumpeter, Cygnus buccinator

Tundra, Cygnus columbianus

Swine, Sus spp.

Swordfish, Xiphias gladius

Sylvilagus floridanus: 2 14; 7 41.

Sylvilagus sp.: 12 71.

Tadpoles: 12 11.

Talpa europea: 5 24.

Tamarin, Saguinus fuscicollis

Tanytarsus dissimilis: 2 17; 5 31; 7 51; 14 60.

Tapes decussatus: 10 61.

Tapeworm: 12 3.

Tea, Labrador, Ledum sp.

Teal

Blue-winged, Anas discors

Green-winged, Anas carolinensis

Termite

Australian, Mastotermes darwinensis

Rhodesian, Trinervitermes dispar

Tern

Arctic, Sterna paradisaea

Common, Sterna hirundo

Forster's, Sterna forsteri

Royal, Sterna maxima

Sooty, Sterna fuscata

Terrapene carolina: 1 21; 14 35.

Tetraedron sp.: 13 18.

Tetrahymena pyriformis: 5 35; 7 45.

Tetranychus mcdanieli: 15 65.

Tetranychus urticae: 15 65.

Tetraselmis chui: 12 54.

Thaïs lapillus: 2 6.

Thalassiosira aestivalis: 12 50.

Thalassiosira pseudonana: 15 37, 39.

Thamnophis sp.: 11 49.

Thomomys sp.: 9 1.

Thynnus spp.: 5 14; 10 40.

Tilapia, Mozambique, Tilapia mossambica

Tilapia mossambica: 14 49; 15 46.

Timothy, Phleum pratense

Tipula sp.: 4 9; 5 22.

Tisbe holothuriae: 6 22.

Toad

European, Bufo bufo

Narrow-mouthed, Gastrophryne carolinensis

Various, Bufo sp., Bufo terrestris

Toadfish, Gulf, Opsanus beta

Toadflax, bastard, Comandra

Tobacco, Nicotiana tabacum

Tomato, Lycopersicon esculentum

Tomcod, Microgadus tomcod

Triaenodus tardus: 3 21.

Trichechus manatus: 7 25, 34.

Trichogaster pectoralis: 3 21.

Tridacna maxima: 11 28; 12 35.

Trifolium sp.: 4 1.

Trinectes maculatus: 1 14.

Trinervitermes dispar: 6 14.

Tringa solitaria: 7 23.

Tringa totanus robusta: 12 33.

Triticum aestivum: 2 12; 5 22; 9 25; 10 1; 11 25, 26; 12 12, 43.

Triticum vulgare: 15 28.

Triturus cristatus: 11 49.

Trout

Brook, Salvelinus fontinalis

Brown, Salmo trutta

Cutthroat, Salmo clarki

Lake, Salvelinus namaycush

Rainbow, Salmo gairdneri

Spotted sea, Cynoscion nebulosus

Tubifex costatus: 12 51.

Tubifex sp.: 6 30; 14 32.

Tubifex tubifex: 3 10; 15 27, 45.

Tuna

Japanese, Scombridae

Various, Thynnus spp.

Tunas: 10 30; 14 34.

Tunicate, Podoclavella moluccensis

Turdus merula: 5 23;

Turdus migratorius: 2 12; 7 23; 12 56; 14 41.

Turkey, Meleagris gallopavo

Turnip, Brassica rapa

Turtle

Atlantic green, Chelonia mydas

Box, Terrapene carolina

Slider, Chrysemys scripta

Snapping, Chelydra serpentia

Loggerhead, Caretta caretta

Turtle-dove, ringed, Streptopelia risoria

Tuskfish, scarbreast, Choerodon azurio

Tymanuchus cupido: 10 52.

Tymanuchus cupido attwateri: 7 23.

Tymanuchus phasianellus: 4 12.

Tyto alba: 7 53.

Uca minax: 3 22.

Uca pugillator: 2 23; 10 48, 61; 15 37, 43.

Uca sp.: 13 19, 21.

Ulmus americana: 15 28.

Ulva sp.: 14 27.

Umbra limi: 9 18.

Umbra pygmaea: 6 13; 11 48.

Upeneus moluccensis: 15, 27.

Uria aalge: 7 23.

Uronema marinum: 10 47.

Uronema nigricans: 10 61.

Uronema sp.: 14 59.

Urophycus chuss: 11 30.

Ursus maritimus: 7 1, 25.

Vaccinium angustifolium: 12 22.

Vaccinium pallidum: 14 27.

Vigna sp.: 12 41.

Vitis sp.: 5 22.

Vole

Bank, Clethrionomys glareolus

Field, Microtus agrestis

Meadow, Microtus pennsylvanicus

Pine, Pitymys (= Microtus) pinetorum

Prairie, Micropterus ochrogaster, Microtus ochrogaster

Viviparus ater: 14 14.

Vulpes sp.: 12 34; 14 99; 15 33.

Vulpes vulpes: 10 39, 43, 64.

Vultur gryphus: 14 2.

Vulture, king, Sarcophampus papa

Walleye, Stizostedion vitreum vitreum

Walrus, Odobenus rosmarus

Watermilfoil, Eurasian, Myriophyllum spicatum

Weed

Duck, Lemna minor

Lake, Lagarosiphon major

Loco, Astragalus

Pond, Ceratophyllum, Najus, Navicula, Potamogeton

Sargassum, Sargassum fluitans

Sea, Chondrus, Fucus, Sargassum

Water, Elodea

Whale

Cuvier's goosebeaked, Ziphius cavirostris

Fin, Balaenoptera physalis

Pilot, Globicephala macrorhynchus

Sperm, Physeter macrocephalus

Wheat, Triticum aestivum, Triticum vulgare

Whelk

Common dog, Nucella lapillus, Nucellus lapillus

Various, Kelletia kelletia, Thais lapillus

Whistling-duck, fulvous, Dendrocygna bicolor

Whitefish

Lake, Coregonus clupeaformis

Round, Prosopium cylindraceum

Various, Coregonus spp.

Whiting, Sillago bassensis

Wigeon, American, Anas americana

Wolfish, spotted, Anarhichas minor

Woodchuck, Marmota monax

Woodcock, American, Scolopax minor

Woodlice: 14 32, 48.

Worm

Earth, Allolobophora, Eisenia, Lumbricus, Octochaetus

Horn, Sphyngidae

Lug, Arenicola cristata

Marine, Nephtys hombergi

Sand, Nereis diversicolor

Silk, Bombyx mori

Tiger, Eisenia foetida

Tobacco horn, Manduca sexta

Various, Limnodrilus, Nais, Neanthes, Paranaïs, Stylodrilus, Tubifex

Worms: 6 44; 7 8, 28, 50; 14 35; 15 8, 15.

Xenopus laevis: 5 31, 35; 11 49.

Xiphias gladius: 5 14; 10 30.

Yeasts: 3 26; 12 9, 41.

Yellowtail, Seriola quinqueradiata (= lalandei)

Zalophus californianus: 2 10; 5 15, 25; 10 39, 43; 14 52.

Zapus princeps: 6 15.

Zea mays: 3 iii, 1, 4, 5, 15, 17, 21, 26-28; 4 19; 5 22; 6 13; 8 16; 9 1; 12 12, 43; 14 48, 56; 15 28.

Zebrafish, Brachydanio rerio

Zenaida (= Zenaïdura) macroura: 7 23, 50, 60; 10 35; 14 2, 85.

Ziphius cavirostris: 7 26.

Zizania aquatica: 14 70.

Zylorrhiza spp.: 5 6.

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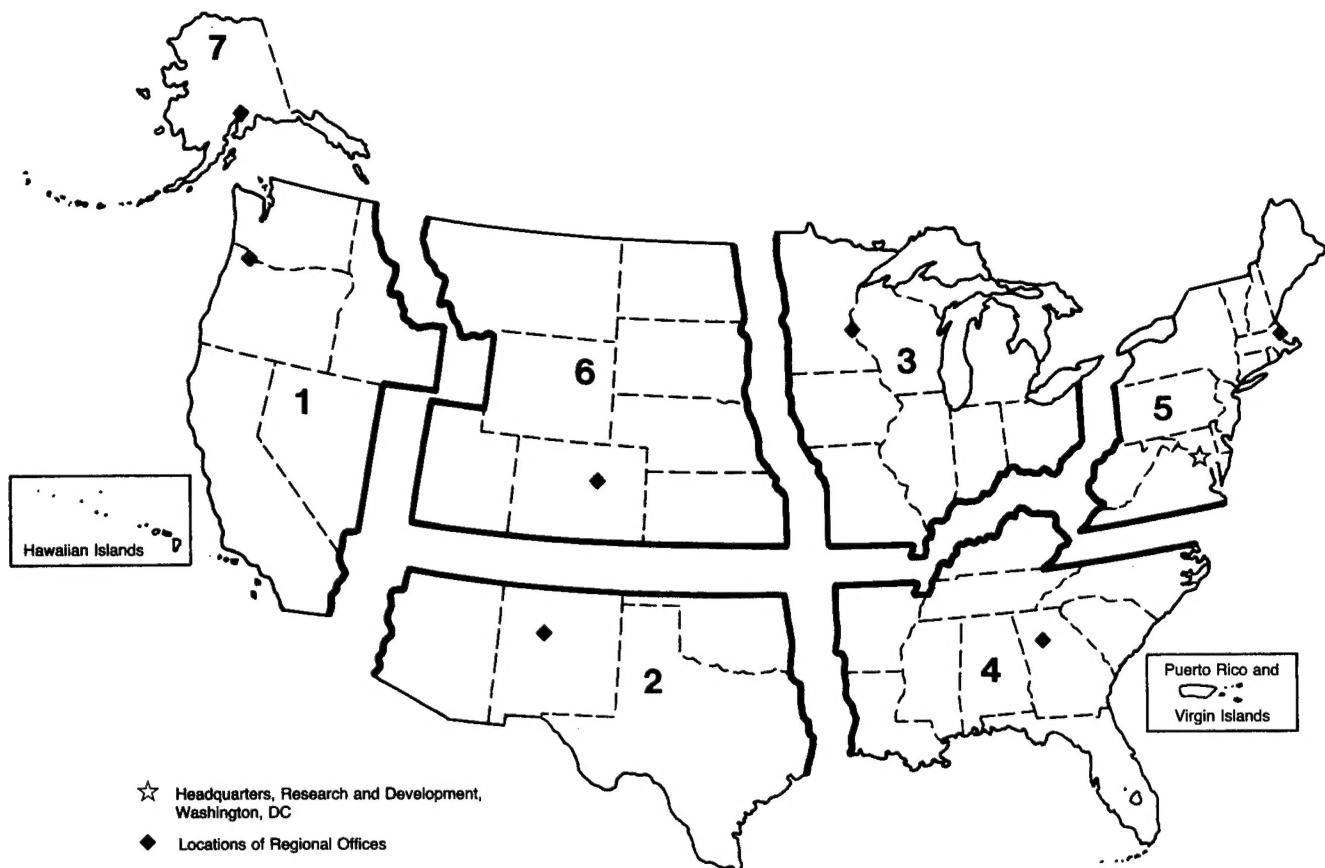
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